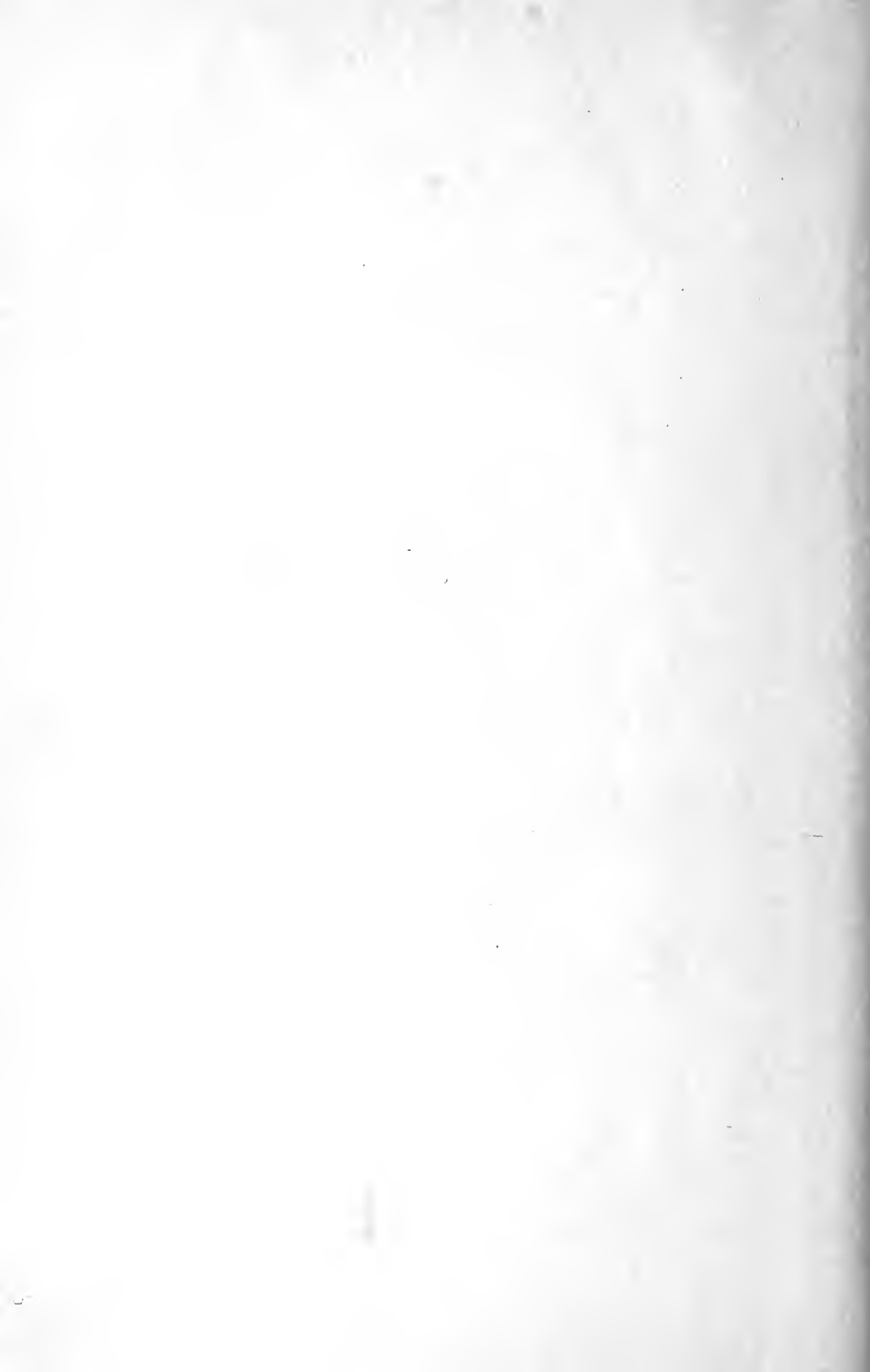


22.76.19

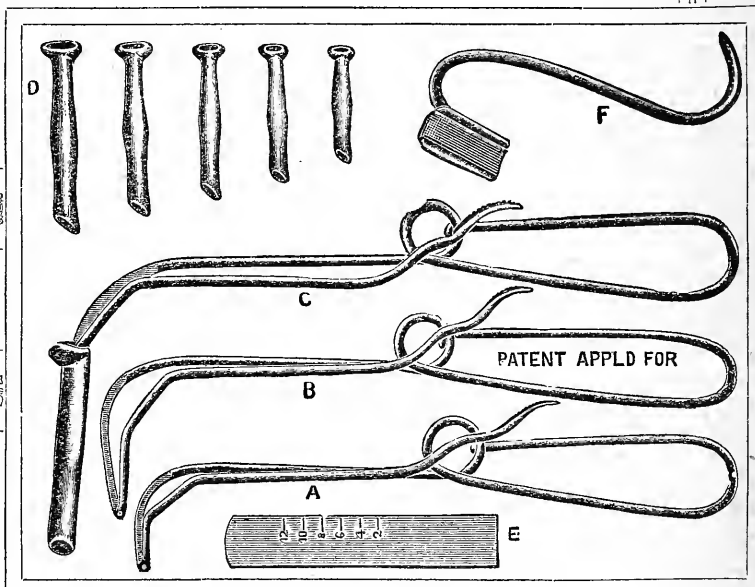
BOSTON MEDICAL LIBRARY
in the Francis A. Countway
Library of Medicine ~ *Boston*

Digitized by the Internet Archive
in 2011 with funding from
Open Knowledge Commons and Harvard Medical School



HISTORY AND EVOLUTION OF THE INTUBATION APPARATUS

FROM O'DWYER'S SET
SOLD AT \$50.00 DOWN
TO



The Rational Intubation Set at \$12.50

For a Short Time

See special offer on back cover page.

Already endorsed by such eminent men as Professors FLETCHER INGALLS, WAXHAM, JAQUES, ROSENTHAL, BLECH, MAX THORNER and many other famous authorities in paediatrics and laryngology.

Made Only By FRANK S. BETZ & CO.,
L. R. KRATZMUELLER, Patentee CHICAGO.

The Object ^{of} _{this} Booklet

is to give the reader a complete history, with illustrations, of the different instruments now on the market for Intubation.

We wish to call your attention to the

Rational Intubation Outfit

manufactured only by us for which the best

Known Authorities

claim has all of the best features, besides having

Three In- and Extubators

of different lengths, such as every successful operator must have.

Our Tubes Are Made of Part Silver Heavily Gold Plated

which prevents them from BLISTERING. Each tube is made funnel-shaped so that the extractors will readily enter same.



IN ORDER to appreciate the difference between the original O'Dwyer Intubation Set, which was sold, at first, for **Fifty Dollars** and even now retails at **Twenty-five Dollars**, and the latest, simplest and best Intubation Set introduced to the medical profession as the "Rational Intubation Outfit," it is necessary to become familiar with the process of evolution which the Intubation Apparatus has undergone, to see how gradually modifications and improvements have been made with a view of securing the greatest possible simplicity, and furthermore to enable the manufacturer to produce it at a price which will not prove too high for any practitioner of medicine. In the following we will show the modifications and improvements only which have become popular.

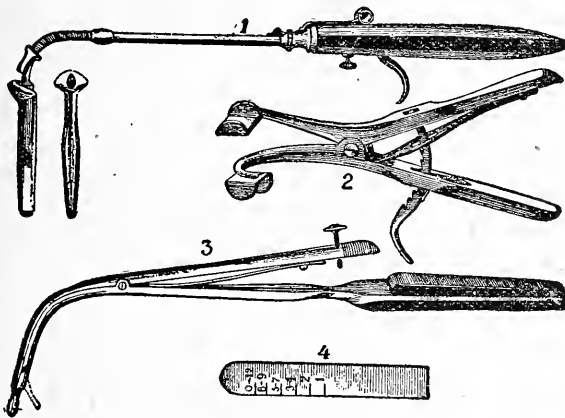


FIG. 1.

The O'Dwyer Set.

Fig. 1 shows the original O'Dwyer Set already mentioned which has the merit of originality, but like all new inventions, no matter how revolutionizing and important, are neither simple enough nor perfect.

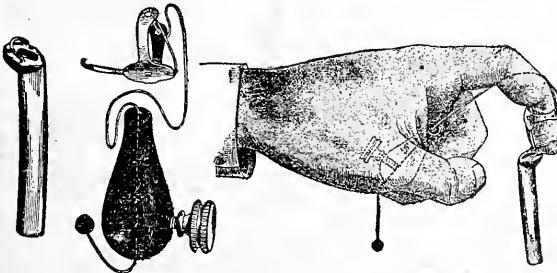


FIG. 2.

Dillon Brown's Device for Tube Extracting.

Dr. Dillon Brown, of New York, finding that the beak of the original O'Dwyer Extractor, owing for its shortness frequently would not

grasp firmly enough the tube, offered a modification in the form of a blunt hook to be attached to the index finger. This modification made it essential that the original O'Dwyer tubes be provided with wire bridges over the top, thus creating an additional expense to an O'Dwyer Set.

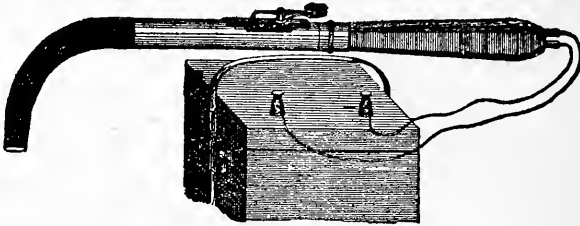


FIG. 3.

Dr. W. W. Wetherla's Electro-Tube Extractor.

This Tube Extractor, while facilitating the frequently difficult operation of tube extraction to a considerable degree, necessitates the use of specially made iron tubes and can be used only with a heavy storage battery, a complete outfit of which costs no less than Fifty Dollars.

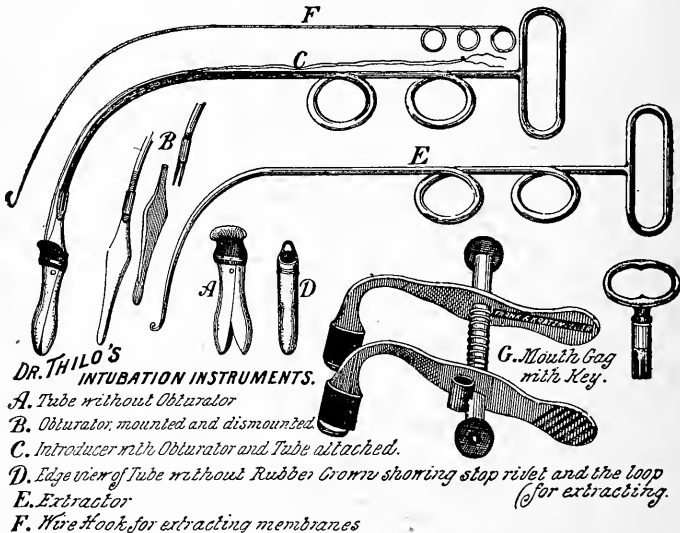


FIG. 4.

Dr. George Thilo Set with rubber cap on each tube. Tubes work on the plan of a bi-valve speculum being made in two parts. Like O'Dwyer's Set each tube has a special obturator and special extubators for their removal. Price \$35.00.

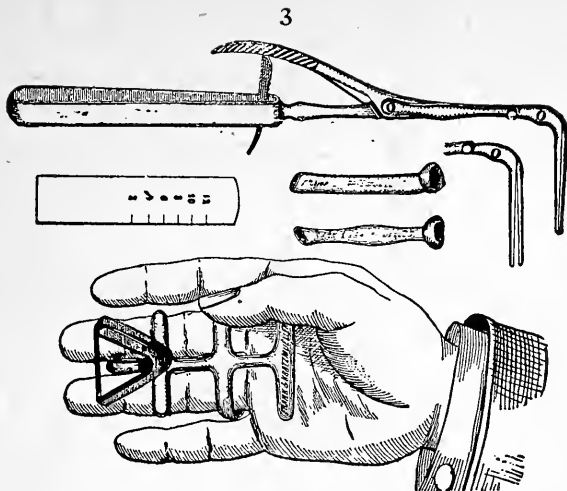


FIG. 5.

Ferroud's Original French Intubation Set.

WITH HENROTIN'S IMPROVED MOUTH GAG.

Dr. Paul Ferroud's (Lyons, France) Original French Intubation Set has a combined instrument for the introduction and extraction. In addition, the "troublesome obturators are done away with; while the general configuration of the tube is an exact reproduction of the original O'Dwyer tube, the lower end has been cut off at an angle of about 45 degrees, slanting from right to left, which facilitates the passage of the tube between the vocal cords. As the lower end of the tube presents no shape but broad, well rounded off edges, there is no danger of injuring the tissues. The beaks of the intubator handle do not fill out the whole opening of the tube, thereby allowing free circulation of air while operating." (Dr. W. W. Wetherla, Chicago. Max Thorner, Cincinnati.) The price of this set is \$25.00.

With the directions sent with each Rational Intubation Outfit any student can place the tubes. The only thing required is the right kind of In- and Extubators to do the work. With our outfit you have these.

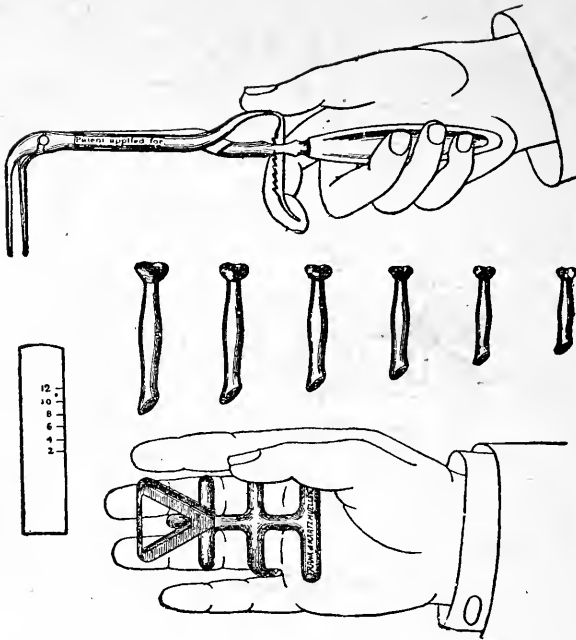


FIG. 6.

Frank & Kratzmueller Improved French Intubation Set,

WITH HENROTIN'S IMPROVED MOUTH GAG.

Frank & Kratzmueller's Improved French Intubation Set combines all the advantages of Ferroud's over O'Dwyer's, but the very complicated original French In- and Extubator, consisting of seven parts, has been changed to one of only two, easily detachable parts. "Another improvement has been added, as the opening at the tops of the tubes has received a funnel shape, in order that the beak of the Intubator handle may the more readily be made to enter the tube." The saving of work by simplifying the handle enabled the price of this set to be lowered to \$18.00.

Do you wonder why all of the best authorities on Intubation claim our set the only perfect one made.

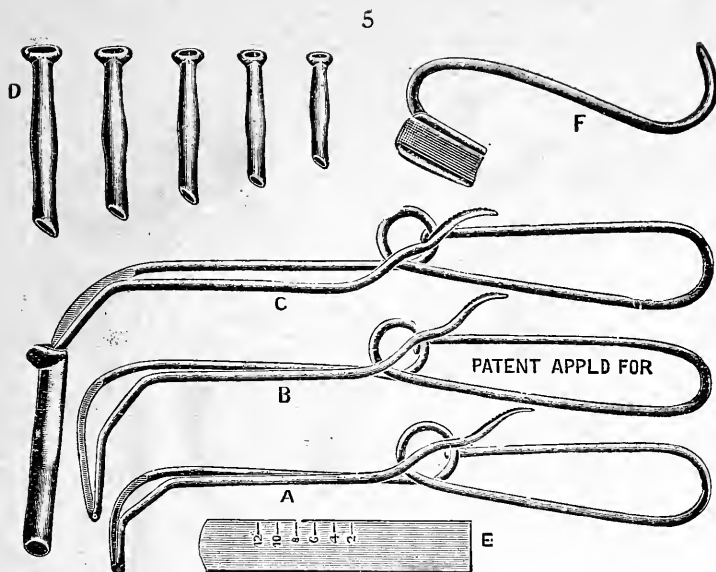


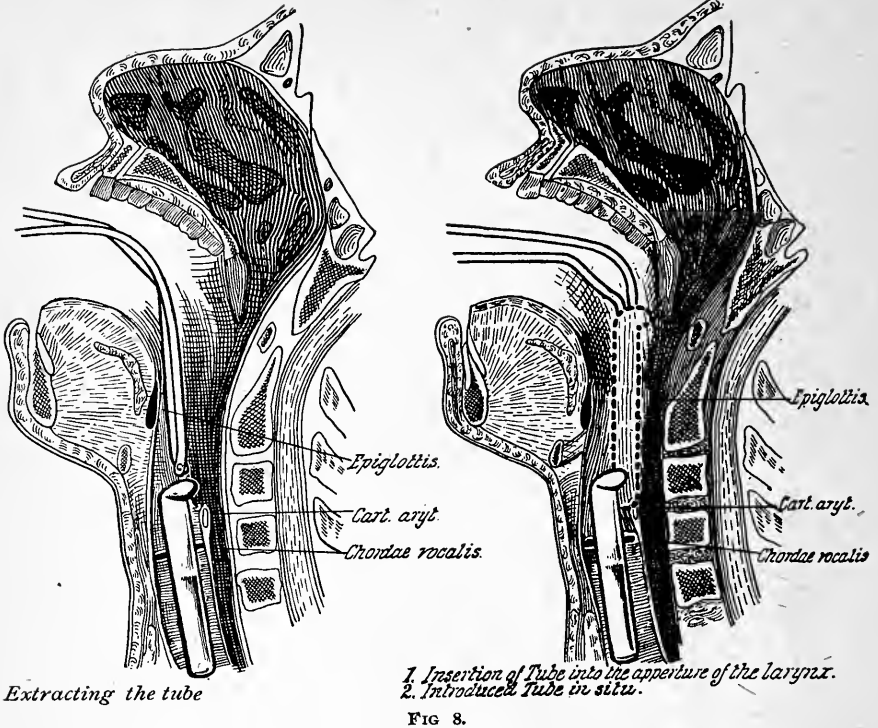
FIG. 7.

The Rational Intubation Set.

- | | |
|-----------------------------|-----------------------------------|
| (a) Handle with short beak. | (d) Tubes. |
| (b) " " medium beak. | (e) Scale of years. |
| (c) " " long beak. | (f) O'Neill's Improved Mouth Gag. |

The Rational Intubation Outfit

reaches the climax of perfection and completeness, while it is sold at half the price of even the improved French Intubation Set. The latter like the original set, being provided with only one In- and Extubator handle, has proved to be far from complete. Professors E. Fletcher Ingalls, F. E. Waxham and W. K. Jaques, expressed themselves, that they would not recommend the set unless it was supplied with a set of handles with beaks of different lengths, necessary for the extraction of the tubes, when used on a child or grown up children. Many others found it difficult, if not impossible, to remove the old style handle after inserting the tube into the Larynx of a small child, without forcing on the Larynx or without striking the Pharynx and Gum, so they insisted on having another handle with a very short beak. Of course the addition of either a long or short handle, or both, meant an extra expense of Five or Ten dollars. The "Rational Intubation Set" includes the **three necessary handles**, *not only without additional expense, but at an actual cut of half the usual price for Intubation Sets.* No physician should at present be without this important outfit. Now is the opportunity. We have put it within the reach of all! The Rational not only combines all the good features of all other Intubation Sets, but is far superior to them. The three sizes of handles enables you to be ready for any emergency, and work better, safer and easier than with any of the



handles above described. *No thin, spreading beaks to injure the Larynx or to break, no ratchets or springs, that may give way at a critical moment. Our handles lock and unlock automatically, and are made of the best steel, nickel plated. The set consists of one short one medium and one long In- and Extubator, six gold plated tubes, a scale of years, for ready selection of tubes according to the age of the patient, and one O'Neill's Improved Mouth Gag, with a rubber-covered metal wedge, all put up in a white linen roll.*

With Full Directions for Operating.

Price of the complete set for a short time will be \$12.50. The reason we make this liberal offer, is because we want to show you the kind of goods we can turn out for a small amount of money.

If desired with Henrotin's Gag (see Figs. 4 and 5), in place of O'Neill's \$13.50. With O'Dwyer's ratchet Mouth Gag (as per Fig. 1) \$14.50, fully guaranteed. Money refunded if not satisfied upon Examination.

W. K. JAKUES, M. D., Ph. M.
 Director of Diphtheria Staff, Chicago Health Department.
 Professor of Haematology and Physiology,
 Northwestern University Medical School.
 Chicago, Ill.

Highly recommends our set and says: It is another step towards simplicity of instruments. Ninety per cent of all cases of laryngeal stenosis due to the Klebs-Loeffler bacillus can be saved by the proper use of antitoxin and intubation. The object of the operation is to admit air to the lungs. As it is usually an emergency operation, it requires well-selected instruments, well made tubes and a complete set of In- and Extubators of different lengths. Every physician should be able to do the operation.

The Rational Intubation Outfit has all of the best features of all other makes, besides it is the only one with a complete set of In- and Extubators. The physician who cannot leave his practice to obtain instructions will find the following suggestions of value and assistance.

Manikin for Practice.



Obtain a long-necked quart wine bottle, and fill half full of shot to make it stand solidly. Cover the mouth of the bottle with thick leather or buckskin. Slit the leather just over the mouth of the bottle, so the two-year-old tube will slide through until the head rests on the leather. Around the neck of the bottle place another oblong piece of leather, wide enough to extend above the top two inches, somewhat funnel-shaped, to stimulate the mouth and throat as shown in cut. First thread the tube, then place on intubator, with head of tube away from the operator. With the index finger of the left hand find the slit in the leather and insert the tube. Release the introducer, then reinsert it and extract the tube; not once, but a hundred times, until the manipulation of the instruments becomes mechanical.

Indications For Operation.

In Klebs-Loeffler croup, antitoxin given in large doses (two to four thousands units, especially in young children), will arrest the progress of the stenosis in eighteen to twenty-four hours. But most cases of laryngeal stenosis are due to mixed infection, and other germs not being directly infected by the antitoxin, may continue the inflammation longer.

While the inflammation gradually increases, the spasms of the trachea occur in cycles of from one to three hours apart. The danger lies in delaying operation until death occurs in one of these spasms, when there is not sufficient time to reach an operator.

At the price the Rational Set is sold every physician should have it in his office so as to be prepared for this emergency operation.

In small children difficulty in breathing is indicated by the sinking in of the sternum on inspiration. This symptom is not present in older children, owing to increased ossification. Stenosis that progresses gradually, causing increased difficulty in breathing, is always a dangerous symptom. There may be a hoarseness, or a whistling sound, as the air passes through the trachea, with cyanosis due to the obstruction. In this case operate early. The most experienced operators make the mistake of waiting too long. If a physician is skillful in doing the operation no harm is done the patient, and relief is afforded. If the operator is not skillful, the patient's condition will admit of several trials, and still leave time to perform tracheotomy as a last resort.

Dr. Jaques has arranged a course for physicians, including instruction in making the bacteriological diagnosis, and operation. This experience may be gained in a few days. Arrangements may be made with the Doctor by letter or telephone.

His address is No. 4316 Greenwood Ave., Chicago, Ill.

We refund your money as cheerfully as we receive it if you buy our Rational Intubation Outfit. We don't want you to keep it if not satisfied upon examination. Send it right back at once.

Dr. Hawe's Antiseptic Suit

FOR USE WHEN THE PHYSICIAN
IS ATTENDING CONTAGIOUS
DISEASES. ❀❀❀❀❀❀❀❀❀❀

WAS first presented to the profession at the meeting of the Colorado State Medical Society in 1899.



It has been endorsed by the Colo. State Board of Health and many eminent sanitarians.

For cheapness, convenience and efficiency it has no equal.

With ordinary usage it will last 15 or 20 years.

It is soaked, by the manufacturers, in a 1 to 200 solution of H_2Cl_2 —then dried, leaving the antiseptic in the cloth.

If the suit is not washed it remains antiseptic for years as the antiseptic salt does not leave the cloth or become weak with age.

When called to attend a case suspected to be Diphtheria or Small Pox, etc., spread the suit on a clean floor and sprinkle a pint of water over it (to re-dissolve the H_2 salt) roll into a bundle and place in the buggy.

Draw the suit on at the door of the patient and remove on coming out of the house—roll it up and place in the buggy; all germs in contact with the dampened suit will be instantly destroyed.

Only a small space about the eyes has been exposed. Wipe this space with the antiseptic handkerchief and every contagious germ is destroyed.

The suit saves the doctor from un-

dressing in a cold shed, and leaving his watch or wallet out of doors.

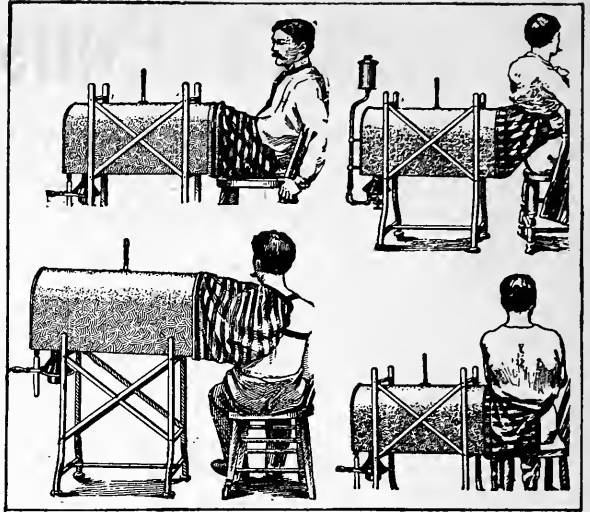
No rubber coat protects the hands, hair, beard, pants and shoes from infection. **This suit does.** You don't know how soon you will need it, **ORDER NOW.** In ordering suit be sure to mention your height in shoes, your reach from wrist to wrist across the back, and state whether you are thin, medium or stout.

Price of suit including white antiseptic gloves and handkerchief,

\$2.75

Do You Know

that
Rheumatism
Gout
Arthritis
Synovitis
Sciatica
Neuritis
Etc.



Do you know that by applying dry hot air at 400° F. you can destroy painlessly the bacilli in Tubercular Arthritis, when Iodoform - Emulsion Injections prove painful and uncertain?

Money refunded after thirty days' trial if you find that the therapeutic results are not satisfactory.

N. B.—Our apparatus can be heated by Gas, Gasoline or Alcohol. And our stand, as you will notice, gives you all positions needed without using a screw.

**Can
be
Cured
?**

Frank S. Betz & Co.

78 STATE STREET,
CHICAGO

Manufacturers of all kinds of Hot Air, Vapor,
Sitz, and Water Baths.

SPECIAL CUT ON PRICE.

To enable all physicians to try our apparatus, we will sell you the \$24.00 outfit mentioned below (see cuts on opposite page) for \$18.00, the \$17.00 outfit for \$14.00, or with all metal parts finished in Aluminum bronze \$20.00; former price of the last named outfit \$35.00. It is a beauty.

Any of the above can also be heated by electricity, necessitating an additional expense of \$10.00 for the carbons, rheostat, etc.,

OR THE OUTFIT FOR CROOKED LIMBS FOR \$15.
see cut below.

THE \$24.00 OUTFIT, consists of

One Steel, Oxidized Copper Hot Air Cylinder.

“ Steel Stand, enameled.

“ Dry Hot Air Sterilizing Outfit for Instruments.

“ Gasoline, Gas, or Alcohol Heater.

“ High Temperature Thermometer.

“ Complete set of attachments for treating arms, legs, hips, etc.

“ 15-foot Turkish Towel for wrapping parts to be treated.

THE \$17.00 OUTFIT, is same as the \$24.00 one except Cylinder is made of Galvanized Iron, instead of Steel Oxidized Copper.

If used for sterilizing your instruments alone it is worth more than we ask you for the whole outfit.



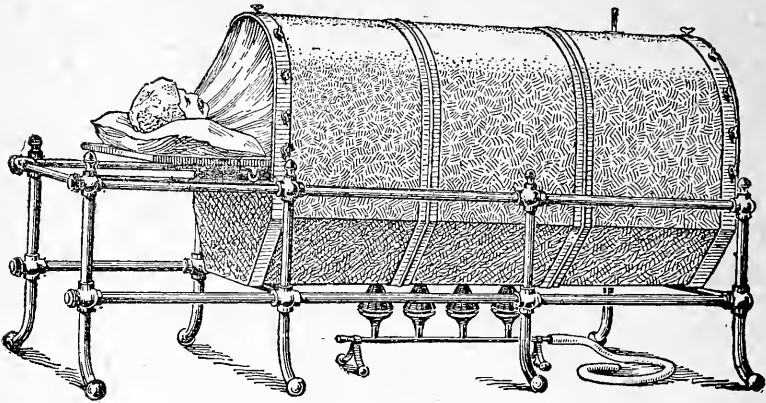
Knee Apparatus

This cut shows the BETZ HOT AIR APPARATUS used for treating flexed arms and legs. It can be heated only with gas or alcohol heater. Price complete as shown in cut, with gas or alcohol heater, toweling, thermometer, and attachments, \$15.00. Cylinder and stand finished in aluminum bronze.

\$20 BUYS THE ABOVE OUTFIT LARGE ENOUGH TO TREAT BOTH KNEES AT ONCE.

We make over twenty kinds. If an apparatus for both legs, both knees, or for a deformed patient is wanted, write us for special prices.

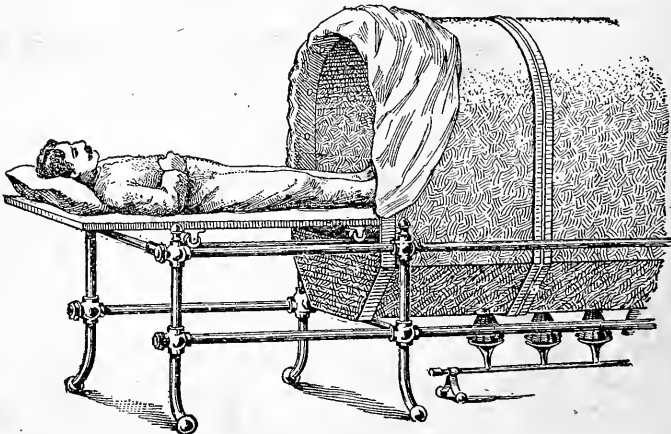
The Betz Hot Air Body Apparatus,



A Complete Medicinal Bath Room.

Occupying only 4x8 feet of floor space. Made entirely of steel, iron, brass and asbestos. **WEIGHT ONLY 700 POUNDS.**

Heated by gas, gasoline; or for \$50.00 extra we put in the **MEISTER ELECTRIC HEATERS** for instantaneous connection in any building where there is electric light.



If you want an apparatus equal to the Hot Springs, and one which will bring chronic cases to you, get this one. It is a money maker for every physician who has one. You cannot advertise, but you can allow the people to talk about you.

ONLY \$2.50 FOR THE STAR VAPOR BATH.



Others charge \$5.00 for a vapor bath made of rubber cloth, while we ask you only \$2.50 for the Star, made of satin finish garniture (the strongest and finest woven goods made), that we warrant for five years. Over 90,000 in use; 312 sold to the Chicago Fire Department four years ago and they are as good as new to-day. Could we make this statement if we had made them of rubber cloth? Ours lead the world for physicians', hospital and home use; for giving Turkish, Russian, Perfumed or Medicated Vapor Baths.

CONSTRUCTION—The cabinet is fastened on two frames of steel; the top one is 26 inches in diameter, lower one 28x38 inches. Collar self-acting. Especially adapted for the traveling public and the home, as it folds up to 17x28 inches and will go in a trunk.

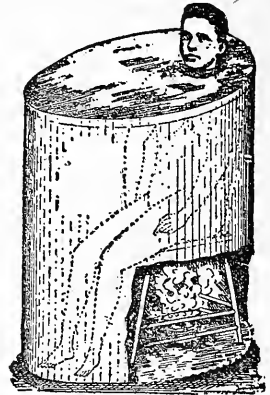
Alcohol Heater, Medicine Vaporizing Pan and Formulas sent with each.

ONLY \$3.50 FOR THE ONLY AUTOMATIC VAPOR BATH MADE.

It does not rest on the shoulders. Can be raised or lowered for a child or tall person. Prejudices are not always easily explained, yet they exist and have to be met. It is our desire to please all, and with this Bath we claim to satisfy the most skeptical.

CONSTRUCTION—Consists of a clamp, clutch, and maplewood rod. It can be fastened to any chair; the rod fits in a strong malleable iron socket fastened to a circular steel ring which supports a canopy. It can be raised or lowered only at right angle. Covering of a triple warp satin finished garniture, being thoroughly vapor tight. We guarantee it to be as good as new at the end of five years' service.

On entering or emerging from the Bath, a gentle pressure of one hand raises the canopy over the center, where it catches automatically on a lug holding it in place. When not in use it may be left over a chair or folded and put away. The metal being beautifully finished and the whole an ornament to any chamber. A child can operate it. When folded it occupies a space of 26x32 inches and weighs 10 pounds. It is not one of these cheap wire affairs, but made of 5-16 steel. Alcohol Heater, Medicine Vaporizing Pan, Formulas, etc., sent with each Automatic Bath.



THE KING OF ALL.

Our price \$12.00, Others ask \$30.00.



Made of hardwood, well seasoned and kiln dried. Every piece soaked in oil to overcome the difficulty that has always heretofore existed on account of the wood absorbing vapor and dampness. Every cabinet is polished and finished equal to parlor furniture. This cabinet has never been sold before for less than \$30.00. It has all of the latest improvements, such as doors, ventilator, etc. It can be folded up to four inches thick without taking out a screw. It stands 42 inches high and 24½x37 on the floor. The patient operates the ventilator from the inside. This gives any temperature. We send an alcohol or gas burner, and ask but \$12.00. It is actually giving them away. We also wire and put on four extra nickel-plated binding posts for \$1.00 extra, so that any battery can be used. This outfit weighs seventy pounds and should go by freight. It is to-day the greatest bargain offered in this country.

This cabinet has doors and are closed by patient. We also make this cabinet of steel plate and line it with asbestos.

Our gas heater and stove combined sent for 25 cents extra. Can be used for all vapor baths.

Over 3000 letters from Physicians from all parts of the World indorsing the

BETZ

HOT AIR

APPARATUS

for all Rheumatic and Joint Troubles.

It will give you a reputation at once. Send it back to Grand Crossing, Ill., if not satisfied at end of 30 days, and we return your money.

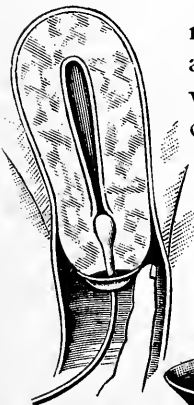
Send for Hand Book on Hot Air.

Made of Soft Rubber, three sizes with introducers for \$1.00, postage paid.

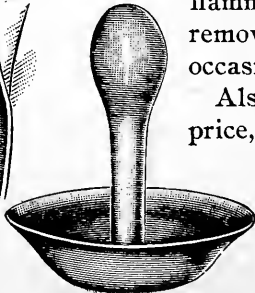
Bend in any direction.

Pronounced the only Scientific

Intra-Uterine Pessary



made. **WHY?** Because it is made according to the anatomical proportions of the mouth of the womb—and will bend in any position. As a dilator they are of incalculable value in painful menstruation and catarrhal inflammation of the womb. They are easily removed and reinserted, needing only an occasional cleaning.



Also made of Aluminum and sold at same price, 3 for \$1.00. Of Silver, \$1.00 each.

Of Silver and Gold Plated, \$1.50 each.

Introducers sent with each.

Sold to Physicians only.

Frank S. Betz & Co.

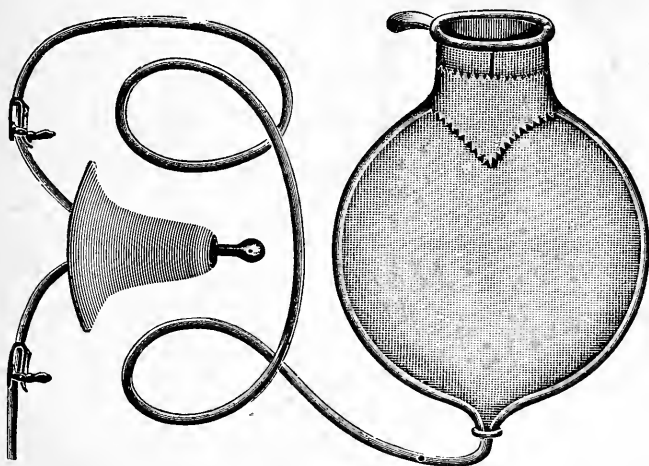
Over 250 Clinical Reports by the best physicians have been published in the different Medical Journals on the

Betz Hot Air Apparatus

Send Postal for our Hand Book on Hot Air.

The Safety Vaginal Syringe.

Our Price, \$1.50. Others Ask \$4.00.



A glance at cut will show that it is constructed on anatomical principles.

Plain hot or cold water **medicated solutions**, no matter of what **composition**, can be introduced with this syringe in any position, lying, sitting or standing without fear of soiling the clothing, as the hard rubber shield prevents the escape of any solution used. By compressing the escape tube with two fingers, the vagina can be distended and all folds stretched, thus subjecting every particle to the influence of the medicated solution. Releasing the escape tube permits the water to flow into any receptacle provided for that purpose.

The outlet is manufactured on an altogether different principle, so that clogging is impossible—even mucus, pus and secretions are carried off.

We have submitted the syringe to many general practitioners and specialists for practical tests and have received nothing but favorable reports, sustaining all our claims.

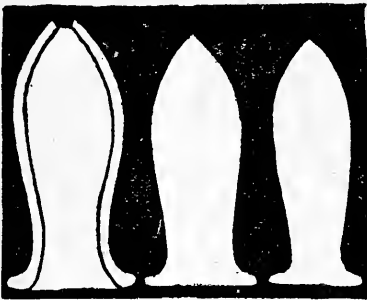
Every outfit is as shown in cut.

If you try one, you will use no other.

Made only by FRANK S. BETZ & CO.

We sent 4,000,000 pieces of printed matter to Physicians last year. If you have anything of merit they can use we will introduce it for you. If made of metal give us a chance to figure on it—we can make it.

The Betz Rectal Dilator and Irrigator



3 DILATORS IN EACH SET.

Nearly 30,000 Sold to
Physicians.

Cut from \$3.00 to

\$1.00

for a complete set of 3, with Rec-
tal Irrigating Attachment.

You will be surprised at the beneficial results in the treatment of the sallow-complexioned, constipated, melancholy individuals, who term their dizziness "billiousness," and look for the cause of their ailments to the much abused liver.

Made of Lead Glass—Smooth as a Diamond. For the treatment of Constipation, Hæmorrhoids (Piles) Fissures, Rectal Ulcers, etc. The only one made that allows the patient to sit down while in use. Full directions for use on each box.

Gradual dilation of the rectal (anal) sphincter muscles is a recognized bloodless and painless method of treatment of some rectal and reflex troubles. It is the most rational treatment in the above named affections, and in the great class of ill-defined nervous phenomena, due to auto-intoxication, depending on defective elimination. It is a well-known fact that by simply dilating the sphincters most cases of irritable ulcers and fissures have been cured, making further treatment unnecessary.

That the so-called itching piles (pruritus ani) are indirectly the cause of fissures and are best treated by dilatation goes without saying. Gradual dilatation will not only stimulate capillary circulation, thus relieving any existing congestion of the hemorrhoidal veins (hemorrhoids, piles,) but will act as a drain for fecal matter, relieving constipation, thus preventing auto-intoxication, and therefore prove a valuable aid.

IF TO BE SENT BY MAIL SEND 10 CENTS IN POSTAGE.

Orratosky's
Operating Table
of Steel Throughout

GIVING all positions for operating
and making examinations will soon
be ready for the market.



Our Price Will Surprise You.
Send Postal For Illustrations.

Remember we are the sole
manufacturers
of this table in the United States.

**FOR
A \$1 BILL**

or 50 two cent Postage Stamps (to cover express charges) we will send the

Rational Intubation Outfit

complete to any express office in the U. S. or Canada. If satisfied upon examination you pay the balance due. If not satisfied send it back.



Every Live Physician

understands what it means to have his patients say he always comes prepared for any emergency.

**NOT ONE SET
HAS EVER
BEEN RETURNED**



